**Claims:** 

**1. (Previously Presented)** A method comprising:

receiving a message at a routing node in an overlay network, the message

comprising a header and a body, wherein the header comprises information for

routing the message;

passing the message to the application level at the routing node to process

the message;

generating a routing policy for a sending node based at least in part on the

body of the message, wherein the routing policy comprises instructions for

redirecting messages based at least in part on the body of the message;

returning the routing policy to the sending node;

identifying a final destination address to which to route the message; and

incorporating the routing policy into the body of the message and

forwarding the message to the final destination node in the overlay network.

**2. (Currently Amended)** The method of claim 1, further comprising:

after passing the message to the application level at the routing node,

modifying an address of the header of the message to create a modified

address;

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after generating the routing policy for the sending node based at least in

part on the body of the message, determining from the message if the sending

node does not have routing policy instructions derived from the body of the

message after the message is passed to the application level of the routing node;

and

generating the routing policy based on the modified address and returning

the routing policy to the sending node if it is determined that the sending node

does not have routing policy instructions derived from the body of the message.

3. (Canceled)

**4.** (**Previously Presented**) The method of claim 1, wherein

generating the routing policy is at an application level in the routing node, and

wherein a compression policy is applied to the message prior to returning the

routing policy to the sending node.

5. – 8. (Canceled)

**9.** (Previously Presented) The method of claim 1, further

comprising iteratively applying by the node a plurality of routing policies to the

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message, each of the plurality of routing policies modifying the address in the message, and applying by the node a security policy to the message.

(**Previously Presented**) The method of claim 1, further **10**.

comprising receiving the at least one routing policy at a sending node in the

overlay network.

11. (**Previously Presented**) The method of claim 1, further

comprising receiving a plurality of routing policies at a sending node from a

plurality of routing nodes in the overlay network.

(Previously Presented) The method of claim 1, wherein **12.** 

identifying at least one routing policy is based at least in part on the address of

the header of the message.

(Previously Presented) The method of claim 1, further **13**.

comprising applying a transport policy to the message after changing the address

in the header of the message, wherein the transport policy defines which

transportation protocol with which to send the message.

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**14.** (**Previously Presented**) The method of claim 1, further comprising:

applying a transport policy to the message only after applying each

identified routing policy to the message, wherein the transport policy defines a

transportation protocol over which to transport the message, and

applying an encryption policy before issuing the message directly to the

final destination node in the overlay network.

**15.** (Previously Presented)

A system comprising:

a routing node receiving a message in an overlay network, wherein the

message comprises a body and a header, wherein the header comprises

information for routing the message;

routing table operatively associated with the routing node; and

a message processor at the routing node, the message processor

generating a routing policy for a sending node of the message and incorporating

the routing policy into the body of the message, wherein the routing policy

comprises instructions for redirecting messages based at least in part on content

of the body of the message, the message processor generating the routing policy

based on entries in the routing table, and the message processor applying a

security policy to the message.

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16. (Canceled)

**17. (Original)** The system of claim 15, wherein the routing node

includes a messaging level and an application level, the routing node generating

the routing policy at the application level.

**18.** (Original) The system of claim 15, wherein the routing node

includes a messaging level and an application level, the routing node returning

the routing policy to the sending node at the messaging level.

19. (Original) The system of claim 15, wherein the routing node

includes a messaging level and an application level, the routing node forwarding

the message to another node in the overlay network at the messaging level.

**20.** (Previously Presented)

A system comprising:

at least one routing policy for a message, the message comprising a

header and a body, wherein the header comprises information for routing the

message, wherein the at least one routing policy is generated by at least one

routing node in an overlay network, wherein the routing policy comprises

instructions for redirecting messages;

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a messaging module configured to change an address in the header of the

message at a sending node to bypass at least one node in the overlay network

based on the at least one routing policy so that the message is issued directly to

a final destination node in the overlay network, wherein the messaging module is

configured to incorporate the routing policy into the body of the message; and

a policy manager configured to identify the at least one routing policy to

the messaging module based at least in part on content of the body of the

message.

21. - 23. (Canceled)

**24.** (Previously Presented) The

system of claim 20,

further comprising a transport policy identifying a transport protocol for the

message based on the address in the header of the message, and wherein the

messaging module is further configured to determine from the message if the

sending node does not have routing policy instructions derived from the body of

the message, and wherein the policy manager is configured to return the routing

policy to the sending node if it is determined that the sending node does not

have routing policy instructions derived from the body of the message.

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**25.** (**Previously Presented**) A computer

storage medium storing a computer program for executing on a computer

system a method, the method comprising:

receiving a message at a routing node in an overlay network, wherein the

message comprises a body and a header, wherein the header comprises

information for routing the message;

passing the message to the application level at the routing node to process

the message;

generating a routing policy for a sending node of the message, wherein

the routing policy comprises instructions for redirecting messages based at least

in part on content of the body of the message, and incorporating the routing

policy into the body of the message;

returning the routing policy to the sending node;

identifying a final destination address to which to route the message; and

forwarding the message to a final destination node in the overlay network.

**26.** (**Previously Presented**) The computer program storage

medium of claim 25 wherein the method further comprises:

generating the routing policy based on the address; and

applying a compression policy to the message prior to returning the

routing policy to the sending node.

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program

**27.** (Currently Amended) The computer program storage

medium of claim 25 wherein the method further comprises:

after generating the routing policy for the sending node of the message,

determining from the message if the sending node does not have routing policy

instructions derived from the body of the message after the message is passed

to the application level of the routing node; and

generating the routing policy and returning the routing policy to the

sending node if it is determined that the sending node does not have routing

policy instructions derived from the message.

**28.** (**Previously Presented**) The computer program storage

medium of claim 25 wherein the method further comprises generating the

routing policy at an application level in the routing node and applying an

encryption policy to the message before forwarding the message to the final

destination node.

29. – 30. (Canceled)

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**31.** (**Previously Presented**) A computer program storage

medium storing a computer program for executing on a computer system a

method, the method comprising:

identifying at least one routing policy for a message, the message

comprising a header and a body, wherein the header comprises information for

routing the message, wherein the routing policy comprises instructions for

redirecting messages based at least in part on content of the body of the

message;

changing an address in the message to bypass at least one node in an

overlay network based on the at least one routing policy;

identifying a final destination address to which to route the message;

incorporating the routing policy into the body of the message and issuing

the message in the overlay network directly to the final destination node; and

sending the at least one routing policy to a sending node in the overlay

network.

32. (Canceled)

**33.** (**Previously Presented**) The computer program storage

medium of claim 31 wherein the method further comprises:

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determining from the message if the sending node does not have routing policy instructions derived from the body of the message after identifying at least

one routing policy; and

returning the routing policy to the sending node if it is determined that the

sending node does not have routing policy instructions derived from the body of

the message;

iteratively applying a plurality of routing policies to the message, each of

the plurality of routing policies changing the address in the message.

34. (Canceled)

**35.** (**Previously Presented**) The computer program storage

medium of claim 31 wherein the method further comprises sending a plurality of

routing policies to a sending node from a plurality of routing nodes in the overlay

network, and applying an encryption policy to the message before sending the at

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least one routing policy to a sending node in the overlay network.

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**36. (Previously Presented)** The computer program storage medium of claim 31 wherein the method further comprises:

identifying at least one routing policy based at least in part on the address in the header of the message; and

applying a compression policy to the message.

**37. (Previously Presented)** The computer program storage medium of claim 31 wherein the method further comprises applying a transport policy to the message after changing the address in the header of the message.

**38. (Previously Presented)** The computer program storage medium of claim 31 wherein the method further comprises:

applying a transport policy to the message only after applying each identified routing policy to the message; and applying a security policy to the message.

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